CCR #: 04-0673   Rev: **Originator:** Willard Selph
Telephone : 301-925-0368   **Office:** 3109D
Title of Change: Delivery of Patch_7.02_DPL_HEG.02A for Installation.

CSG:

Please make the following tar files from the REL7PTE baseline:

Please make a SOL8 tar file with the following packages:

   .EcHg.pkg
   .EcDlWebAccess.pkg

Please label this Patch_7.02_DPL_HEG.02A.

This will deliver the following NCRs:

<center>**ADDITIONAL SHEET**</center>

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NCR Number	Subsystem	Sev	State	Site	Description
ECSed39164	OPS_HEG	5	V	ECD	DPHEG Output File Naming Conventions changes for ASTER and MODIS
ECSed41566	OPS_DPOOL	3	V	LaRC	Webaccess: Use DAAC-supplied DAAC name in DN subject line
ECSed40868	OPS_DPOOL	4	V	NSIDC	Webaccess: email from shipping cart says "converted" for nonHEG orders
ECSed41166	OPS_DPOOL	5	V	EDF	WebAccess: allow linits on #items in cart that are HEG_converted
ECSed40586	OPS_DPOOL	5	V	EDC	7.00: Webaccess: DN should specify order status of each granule
ECSed41533	OPS_DPOOL	3	V	EDC	WebAccess: add webaccess.cart.relativeFileLoc to propertied file
ECSed41530	OPS_HEG	2	V	EDC	Image smearing on land/water boundaries for swath data Geographic proj.
ECSed41341	OPS_HEG	2	V	EDC	DPHEG MOD11_L2 MODIS Swath data corruption along the scene edge
ECSed41375	OPS_HEG	2	V	EDC	PVC:OPS: Split MODIS Senusoidal full image
ECSed41517	OPS_HEG	2	V	EDC	DPHEG MODIS GeoTiffs need to have their Upperleft coordinate
ECSed41519	OPS_HEG	2	V	EDC	DPHEG MODIS GeoTiffs SINUSOIDAL and NOCHANGE options have
ECSed41593	OPS_HEG	3	V	EDC	MODIS HDFEOS metadata tag should indicate pixel registration at UL
ECSed40362	OPS_HEG	2	V	PVC	Frontend missing support for ASTER GeoTiff NoReprojection conversions
ECSed41178	OPS_HEG	2	T	EDC	TS1: DPHEG cores for MOD43B1 UTM Projection option

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ECSed41609	OPS_HEG	3	V	EDC	Round off MODIS swath pixel size to 250, 500, and 1000 meters
ECSed41610	OPS_HEG	3	V	EDC	Round off ASTER Swath pixel sizes for UTM/PS to 15, 30, and 90 meters
ECSed41601	OPS_HEG	3	V	EDC	Resample core dumps if input file does not have an extension
ECSed40382	OPS_DOC	2	V	EDC	Datapool HEG User Guide needed.

INSTALLATION:

The following procedures define the installation of the Patch_7.02_DPL_HEG.02A.

PATCH/TE DEPENDANCIES:

1. The mode being installed must be at the minimum 7.02 with the following Patches:

    Patch_7.02_DPL_HEG.01C

PRE-INSTALL

1. Login to the staging host and create staging area.

2. Copy the associated files into the staging area.

3. Change to the SOL8 staging directory:
     cd /<staging_area>/SOL8

4. Execute the setup script: ./*Setup.ksh

5. Shut down the HEG front end. (Must be cmshared).

    a. On the host where the package .EcDlWebAccess.pkg is installed,
        cd /usr/ecs/<MODE>/CUSTOM/utilities

    b. Run the following script:
        EcDlHEGFrontendControl <MODE> stopnow

    c. If that doesn't work, do the following:
        /usr/ucb/ps –auxwww |grep –i front |grep <MODE>
        kill <PID>

    d. Remove the lockfile log in /usr/ecs/<MODE>/CUSTOM/logs

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INSTALL:

The following provides the procedures to install Patch_7.02_DPL_HEG.02A delivery.

Installation of Custom Code using E.A.S.I.

1. On any SUN host logon as cm<mode> then bring up E.A.S.I and select "**Full**" for install type.
2. Install all delivered packages.
3. Exit ECS Assist.

CONFIGURATION:

1. As cm<mode>, logon to the host where the package **EcDlWebAccess.pkg** is installed (xxdpsnn).

2. Start ECS Assist's Subsystem Manager.

3. Select the MODE you wish to create configuration files for.

4. Double click "**DPL**"; then "**EcDl**" and drill down to "*EcDlDataPoolApp*". A list of executables will be displayed.

5. Select executable "*EcDlWebAccess*".

6. Click the "**Configuration**" button to verify the settings. If the settings are not correct, please enter the correct value(s).

7. New parameters for EcDlWebAccess:

Parameter	Recommended Value	Definitions
SITENAME	As per config patch (DAAC NAME)	DAAC NAME
USER_SERVICES_EMAIL	As per config patch (DAAC User Services Email Address)	Email address for user services

8. Run **Mkcfg**

   a. Click "**Ok**" button to create configuration file for EcDlWebAccess.

   b. Exit ECS Assist Subsystem Manager.

9. Registry Patch

   The Data Pool subsystem does not use the Registry to store its configuration parameters.

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DATABASE UPDATES:

None.

POST INSTALLATION/NOTES:

1. Bring up the HEG front end (must be cmshared).
    a   On the host where the package .EcDlWebAccess.pkg is installed (*xx*dps*nn*),
        cd /usr/ecs/<MODE>/CUSTOM/utilities

    b. Run the following script:
        EcDlHEGFrontendControl <MODE> start

    c. Check to see that the HEG Frontend is running.

2. Reload DPL Web access application for the mode you have installed
    a   Access the Tomcat Manager Web Page using the following example URL:
        http://xxdpsnn.[domain]:[Tomcat Manager port number]/index.jsp
    b   Click Tomcat Manager within the Administration Box. You will be prompted for
        the userid and password.
    c   The Tomcat Web Application Manager page is displayed.
    d   Click the **Reload** button for the mode that was installed which is listed in the
        Commands column. The Web Access application for the selected mode will be
        refreshed.
3. Per NCR 39164, the naming convention is being changed for output files produced by
    HEG conversion orders.   The new file naming convention is:

    <input file name without the hdf extension>_<field name>_<unique HEG request
    number>.<extension>

    where
    <extension> is one of .tif, .tif.met, .hdf, .hdf.met

    <input file name without the hdf extension> is actually the same as the Local
    Granule Id of the input file (with "_"substituted for some special characters.); this
    includes the tile number for MODIS and the acquisition datetime for ASTER.

    <field name> indicates which bands/fields are represented in the output file

4. The format of the Order Notification email has changed, per NCRs 40586 and 41566.
    In particular, a DAAC supplied string will appear as the DAAC name in the subject
    line.   These DAAC names have been baselined, per email exchanges with the DAACs
    (LP DAAC, ASDC, NSIDC).   However, they are also configurable, via the
    SITENAME configuration parameter for EcDlWebAccess.

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There is a new preamble to the Order Notification.   The preamble uses the same sitename as in the subject line (LP DAAC, ASDC, NSIDC) in the first paragraph to identify the DataPool and the User Services group.   It also includes a contact email address for DAAC User Services.   This email address is configurable via a new configuration parameter called USER_SERVICES_EMAIL.   A sample of the Order Notification preamble (for LP DAAC) is:

Thank you for ordering from the LP DAAC DataPool. This is a system-generated mail. Please do not reply to it. If you have any questions, please contact LP DAAC User Services at edc@eos.nasa.gov

Your DataPool order, 0000000000000803, is ready. Per your request, your order is being delivered using a standard web download (FTP). Your files are stored in a unique directory residing on the DataPool anonymous FTP site. To access your files, click on one of the links below.

NOTE: The data associated with your order will expire in 120 days. It is your responsibility to retrieve the data within this timeframe. Order status is listed granule by granule.   If all granules in the order fail, an order failure status will be included.

5. Per NCR 41166, DAACs now have the ability to limit the number of granules per order for which HEG conversions are requested.   This works as follows:

DAAC operations staff configures this limit using the OMS GUI (we chose this method because it is consistent with how things will work in phase 3 with the Synergy V delivery).   The operator uses the OM Configuration - Server/Database page on the OMS GUI, and configures the "**Max Subset Granules**" configuration parameter on that page to be equal to the maximum number of items in the Data Pool Web Access shopping cart for which HEG conversions may be requested.

A warning message will appear on the Data Pool Web Access results page and cart page, so that the user will be aware of the HEG limits before placing an order.   The warning message says:

"Warning: A maximum of <n> granules per order may have associated conversion requests (format change, projection changes or subsetting). If your order exceeds this limit, it will be rejected upon submittal."

If the user requests HEG conversions for more than this number of granules in their shopping cart, an Order Submission Warning dialog will be displayed in their web access session showing the following error message:

"A maximum of <n> granules per order may have associated conversion requests

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(format change, projection change or subsetting). Your order contains <m> conversion requests. The associated granules are listed below. You may remove some of these granules from your order or remove the conversion requests from these granules. Click on the granule links to view the detailed HEG conversion information for each granule. "

The user will then have the option use a table on the Order Submission Warning dialog page to remove granules totally from the cart, or to retain them without HEG processing, before resubmitting the order.